



COMING EVENTS

NOVEMBER

12 THURSDAY

- Lecture-Demonstration Music**
Thursday Afternoon Series. "Songs of the Doukhobors". Kenneth Peacock, Folklore Division National Museum of Man. Concert Hall, Edward Johnson Building. 2 p.m. Free. (Music)
- Lectures Drama**
"The Theatre; Does It Exist?". Alan Schneider. Room A, Brennan Hall, St. Michael's College. 12.10 p.m. (SGS, Drama, and Irish Theatre Society)
- Computer**
"Numerical Treatment of Integral Equations". Prof. B. Noble, University of Wisconsin. Room 103 McLennan Physical Laboratories. 3.30 p.m. (SGS and Computer Science)
- Engineering**
"Mechanical Engineering Problems in the Pulp and Paper Industry". B. W. Burgess, Vice President, Pulp and Paper Research Institute, Pointe Claire. Room 254 Mechanical Building. 4 p.m. (SGS and Mechanical Engineering)
- Physics**
"Condensation of Water Vapour Homogenous Nucleation - Recent Light Scattering Measurements and Research on Initial Clustering Phenomena". Prof. G. D. Stein, Northwestern University. Room 102 McLennan Physical Laboratories. 4.10 p.m. (SGS and Physics)
- English**
"On Translating Dickens". Prof. Sylvère Monod, University of Paris. Upper Library, Massey College. 4.30 p.m. (SGS and English)
- Medicine**
"Transcriptional Changes During Cell Differentiation". Prof. R. B. Church, Division of Medical Biochemistry, Faculty of Medicine, University of Alberta. Room 3153 Medical Sciences Building. 4 p.m. (SGS and Biochemistry)
- Seminars Business**
"Is Tax Reform Possible? The White Paper One Year Later". R. P. Kaplan, M.P., Wm. A. Macdonald, Q.C., and Prof. Melvyn Krauss, (McMaster & York). Room 2118 Sidney Smith Hall. 3-5 p.m.
- Medicine**
"Role of Metabolic Control on Citrate". Dr. Paul Srere, Basic Biochemistry Unit, Veterans Administration Hospital, Dallas. Room 417 Charles H. Best Institute. 12.30 p.m. (Banting and Best Medical Research)
- Theatre**
"The Death of Tarelkin" by Sukhovo-Kobylin, and "Charlie" by Slawomir Mrozek. Studio Theatre. Nov. 10 to 14 inc. 8.30 p.m. Free (Drama Centre)
- Music**
Bethany Beardslee, soprano. Concert Hall, Edward Johnson Building. 8.30 p.m. Single tickets \$3. Students \$2. (Music)

13 FRIDAY

- Lectures Sociology**
"Studying Solidarity in a Plural Society: the Use of Ecological Notions". Prof. Jacques Brazeau, Université de Montréal. 132 Sandford Fleming Building. 11 a.m. to 1 p.m. (SGS and Sociology)
- Chemistry**
"The Smiles Rearrangement in Hydrazidic Systems and Related Systems". Prof. M. S. Gibson, Brock University. Room 158 Lash Miller Chemical Laboratories. 4 p.m. (SGS and Chemistry)
- Seminars Engineering**
"Aims and Objectives of a University Water Resources Program". Dr. Marshall Gyse, Civil Engineering, University of Nebraska. Room 316 Mill Building. 2 p.m. (Environmental Sciences and Engineering)
- Higher Education**
"Commonwealth Cooperation in Higher Education". Dr. John F. Foster, former Secretary-General, Association of Commonwealth Universities. Room 307 Innis College. 10 a.m. (Higher Education Group)
- Medicine**
"DNA Base Sequence Heterogeneity in Complex Genomes". Prof. R. B. Church. Room 5227 Medical Sciences Building. 11 a.m. (SGS and Biochemistry)
- Sociology**
"Aspects of Modern French-Canadian Society". Prof. Jacques Brazeau. 229 Borden Building. 3 to 5 p.m. (SGS and Sociology)

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Seek chairman for Fine Art and director for Urban Studies

Prof. G. S. Vickers has indicated his wish to resign as chairman of the Department of Fine Art at the end of this session.

The Provost has approved the following committee to look for and recommend a successor to Prof. Vickers:

- Dean A. D. Allen (chairman)
- Dean G. A. B. Watson
- Dean J. H. Parker (School of Graduate Studies)
- Prof. P. W. Mellen (Department of Fine Art)
- Prof. D. Rifat (Department of Fine Art)
- Rev. M. M. Sheehan (St. Michael's College)
- Prof. R. P. Welsh (Department of Fine Art)
- Prof. M. E. White (Classics, Trinity College)
- Prof. N. P. Zacour (Department of History)

Dean Allen has asked members of the Department of Fine Art to send any suggestions or advice to any member of the committee, or in writing, to him.

A new Search Committee to find a director for the Centre of Urban and Community Studies, succeeding Prof. J. S. Dupré, has been formed and is now

active. The membership consists of:

- Prof. H. Blumenfeld, Department of Urban & Regional Planning
- Prof. R. Breton, Department of Sociology
- Prof. T. C. Kenney, Department of Civil Engineering
- Prof. D. P. Kerr, Department of Geography
- Prof. W. Michelson, Department of Sociology
- Prof. A. Rose, School of Social Work
- Associate Dean J. A. Sawyer of Division II, School of Graduate Studies
- Assistant Dean F. A. Sherck, School of Graduate Studies (chairman)

The committee welcomes any suggestions for candidates for the position. Any member of the committee may be contacted for this purpose.

NOVEMBER 19 DEADLINE

University of Toronto Bulletin is published by Department of Information, Room 225, Simcoe Hall. All material for the next issue should be in the hands of the editor, Mrs. Winogene Ferguson (928-2102) by noon today. The next editorial deadline is noon, November 19.

Hare committee discusses university within university

Statements by Dean John Colman, Scarborough College, and Prof. Edward F. Sheffield, Higher Education, were heard and discussed at the Oct. 13 meeting of the Hare Committee on the Status and Future of Scarborough College.

Prof. F. Kenneth Hare, chairman, reported that the interim student members of the Committee had been formally appointed, and that Prof. Ronald S. Blair had been elected to the Committee by the Scarborough Division of Social Sciences.

After reading his statement, Dean Colman urged the Committee to concentrate its attention on finding an overall solution to the problems of the College rather than trying to deal piecemeal with individual problems. Only by seeking an overall context for the relations of the College and the University could the ambiguities of the past be avoided. Moreover, the inter-related nature of individual problems required that an overall context be found for their solution.

There existed obvious inter-relationships amongst the various problems faced by the College: its desire for a distinctive curriculum; relationships between College Council and the Council of the Faculty of Arts and Science; the need for a high quality faculty fully accessible to students; the role of that faculty in the Graduate School; the relationships between College divisions and Arts and Science and Graduate departments; budgetary problems - the graduate portion, the administrative charge and the use of revenues derived from part-time students; the planning of buildings for the future; the question of negotiation with the provincial authorities.

Dean Colman continued that it would be wise to attempt to arrive at some in-

terim agreement as to a general context for the solution to the College's problems. Only with a tentatively agreed context would it be worthwhile to break the Committee into commissions to consider particular problems. If members of the Committee agreed with his analysis in his paper "Why the Review Became Necessary" one context would follow from this analysis. Secession as a general context for the solution of the College's problems was generally not acceptable to the faculty and students of the College. Rather, an amended status for the College, that of a "university within the University", seemed to be a context upon which most members could agree as a basis for further discussion. That context would be suitable at least as a hypothesis which would be tested by means of detailed discussion in Commissions. If it failed to hold up in Commission discussion, then presumably some other context could be examined.

The requirements for a general solution, on this hypothesis, had been outlined in Dean Colman's paper, "Scarborough College: Some Possibilities for the Future", possibility number eight. The requirements for a satisfactorily amended status for the College within the University were the following: (a) at least the degree of autonomy indicated in the Scarborough College submission to the Commission on University Government in the areas of curriculum, academic rules-structure and arrangements, and admissions; (b) a share, as a right, in the University's graduate teaching, provided for by a restructuring of the University's graduate departments; (c) a new structure of undergraduate departments, ending the current arrangement of unified tri-campus departments; (d) adequate budgetary arrangements, including the continuation of the College's

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UN General Assembly president and Prof Brady will be honoured

Three Convocations will be held this fall, at two of which honorary degrees will be conferred on Edvard Hambro, President of the General Assembly of the United Nations and Permanent Representative of Norway to the U.N., and on Dr. Alexander Brady, professor emeritus of political science at U of T.

On Thursday, Nov. 26, graduates of the College of Education will receive Bachelor of Education degrees.

On Friday, Nov. 27, graduate and undergraduate degrees will be conferred and Prof. Brady will receive the honorary degree of Doctor of Philosophy. He took his B.A. at this University in 1919, a second B.A. at Oxford two years later, and subsequently earned an M.A. and Ph.D. at U of T. Since then Queen's University has conferred upon him an honorary LL.D., and Trent University an honorary D.Litt.

Dr. Brady joined the University staff in 1924 as a lecturer and rose through the professional ranks in political science until his official retirement in 1963. Since then he has been a visiting professor in the department where he spent so many years. Dr. Brady has a long-established reputation as a leading authority in his discipline and his keen and active interest in teaching and scholarship have continued without cessation in his years of "retirement".

On Friday, Dec. 4, graduate degrees are to be given and Ambassador Hambro will be honoured with a Doctorate of Philosophy. A native of Oslo, His Ex-

cellency took a law degree at the University of Oslo in 1934 and a Doctorate of Political Science at the University of Geneva two years later.

From 1940 to 1943, while his country was under Nazi occupation, Dr. Hambro lectured at North American universities and carried out information work in the United States for the Norwegian Government-in-exile. His first governmental post was that of first secretary in the Norwegian Foreign Ministry while it was in London. He was a member of the Norwegian delegation to the international conference in San Francisco at which the United Nations was founded in 1955.

After seven years as registrar of the International Court of Justice, Dr. Hambro taught at the Norwegian School of Economics and Business Administration and was a visiting lecturer at Cambridge, Berkeley and The Hague.

From 1961 until he became Norway's Ambassador to the U.N., Dr. Hambro was a member of the Norwegian Parliament. His publications include Volumes I to V of "The Case Law of the International Court", and, with Dr. Leland M. Goodrich, now visiting professor of political science at U of T, "The Charter of the United Nations".

All Convocations will be held in Convocation Hall at 8.15 p.m. and members of the academic staff are invited to take part in the academic processions which will assemble in the Senate Chamber, Simcoe Hall, at 7.55 p.m.

Hare committee discusses 'university within a university'

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separate annual budget, fair arrangements for credit to the College on graduate account, and fair arrangements for administrative charges; (e) provision of research facilities at the College from the graduate entitlement of the University and inclusion in the University's entitlement of the television facility located at the College; (f) the right to make autonomous administrative appointments where these are appropriate; (g) the right to separate communication and negotiation with the Department of University Affairs and the Committee on University Affairs, and the right of separate membership in the Association of Universities and Colleges of Canada and in the Committee of Presidents of the Universities of Ontario; and (h) equitable sharing in the burdens and benefits of fund-raising in the University.

Prof. Sheffield argued that the Committee would be well advised to consider first the context in which solutions to the College's problems might be sought. He encouraged the Committee to consider not only the context proposed by Dean Colman, that of a university within the University, but also other contexts. Among the contexts meritorious of consideration were the context of an independent liberal arts college, affiliated or not affiliated with the University; the context of a small, independent university, and the context of a major, independent university.

Professor Sheffield continued that the Committee should use for criteria or methods in making its decision on an appropriate general pattern for the future of the College: (a) the interests of the staff and students of the College and of society at large; (b) the University's obligations to persons it has hired to work and teach at Scarborough College; (c) the obligation of the University to assure the full participation of all persons concerned in the making of the decision; and (d) the imperative that justice not only be done but be seen to be done.

Briefly outlining the history of the founding of the College, Prof. Sheffield pointed out that the "Plateau" Committee which first foresaw the emerging institutions foresaw them as affiliates of established universities, which would become independent in due course. When Brock and Trent Universities were founded, they were not in fact affiliated with McMaster and Queen's as had been foreseen. On the other hand, Scarborough and Erindale were closely affiliated with the University of Toronto. In fact, the Board of Governors of the University excluded, by omission of reference to it, the possibility of Scarborough and Erindale being created as institutions destined to become independent.

The Ontario Government was now conducting another fundamental review of post-secondary education in the Province. The Commission on Post-Secondary Education in Ontario (the Wright Commission), was investigating the future of post-secondary education in the Province to 1980 and further to 1990. Prof. Sheffield argued that the Committee would be very well advised to make itself familiar with the Wright Commission's thinking. The expectations of the Commission would almost certainly have a strong bearing on the possibilities open to Scarborough College in the future.

Prof. Sheffield pointed out to the Committee the particularly strong pressure faced by the Ontario Government for the creation of limited degree-granting institutions. The function might be performed by more highly developed colleges of applied arts and technology. Alternatively, the function might be performed by limited, degree-granting institutions such as Nipissing College, Glendon College, and perhaps Scarborough and Erindale Colleges. This function might provide a new context in which to seek solutions to the College's problems.

Professor Sheffield concluded that it was clear that the College required more autonomy, but that it was a moot question as to how much.

It was suggested that the Committee take up Prof. Sheffield's suggestion that it consult with the Commission on Post-Secondary Education in Ontario.

Prof. J. G. Slater voiced his strong opposition to the suggestion. He proposed rather that the Committee draw its own conclusions and that it then present these conclusions in strong terms to the Ontario Government and to the Commission on Post-Secondary Education. It would be inappropriate that the Committee merely fall in with the pattern prescribed by the Wright Commission. It would be particularly inappropriate that the Committee accept the future status of the College as a limited, degree-granting institution. The College was already of higher calibre than that consonant with the role of limited, degree-granting institutions.

Prof. G. A. Yarranton and Assistant Dean J. Riddick argued, on the other hand, that consultation with the Wright Commission would be most useful. It would be important merely to know what sort of university enrolments were being projected for the future. For only with this information would it be possible to project the future size of the College, hence to know the future size of its faculty and nature of its curriculum, and hence to know the very nature of the College in the future. It would be impossible to talk about the future of the College without knowing whether or not the Province would support graduate work and research at the College in any of its possible future roles.

It was asked whether it would not be possible to obtain enrolment figures without going to the Wright Commission. Registrar Mr. Robin Ross indicated that such figures could be obtained, but that they would probably be of doubtful accuracy. Principal A. C. H. Hallett suggested that the required figures could be derived from projections of population growth in the area of the College, particularly for persons between the ages of eighteen and twenty-four. Mr. Ross agreed that such projections would be useful, but pointed out that the figures obtained from them would be affected by a number of factors, including a radically changing employment situation, the development of the colleges of applied arts and technology, and planning for the coordination of graduate enrolment.

Principals Hallett and J. T. Wilson challenged the argument that consultation with the Wright Commission and with Mr. Wright would be a useful means to obtain information. Dr. Wilson pointed out that provincial government figures were based on figures provided initially by the University itself, and argued that these figures were not accurate. Dr. Hallett argued that political constraints would impede the frank and full flow of information. Principal Wilson reported his conclusion that the Commission would base its thinking too heavily on the notion of equality of universities when there existed a clear diversity amongst the universities of Ontario. The University of Toronto was unique amongst the Universities of the province in that it was the only university able to train university teachers in large numbers in its graduate school. It was a failing of provincial authorities that they did not recognize this uniqueness.

The Chairman undertook to attempt to obtain projections of university enrolment for the Committee.

Prof. A. J. G. Patenall argued that the "university within the University" proposal would prove in fact to be more a "junior college" arrangement. Most of the problems faced by the College in its relationships with the University were not structural and could be solved by improving the operation of roughly the present arrangements.

Prof. Blair stated that the continued close relationships within departments were essential if the College hoped to offer the large number of courses required for specialized training in any discipline, an essential ingredient in view

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STAFF NOTES

Arts and Science

PROF. R. C. ROEDER attended the International Astronomical Union Symposium on "Galaxies and Quasi-stellar Objects," Aug. 10-14, and gave a paper on "Cosmological Models using Q.S.O.s."

DR. T. C. HUTCHINSON attended the 1970 Annual Meeting of the American Society of Agronomy at Tucson, Arizona, from Aug. 23 to 27 and gave two papers, to the Crop Science and Soil Sciences sections, entitled "The Effect of Lime-Chlorosis on the Drought Resistance of a Number of Plant Species" and "Air-borne Metallic Contamination of Soils in the Sudbury Area, Ontario."

PROF. KINYA TSURUTA presented a paper "The Flow-Dynamics in Kawabata Yasunari's *Snow Country*" at the 5th annual conference of Asian Studies on the Pacific Coast June 25-28 at Oaxtepec, Mexico.

PROF. W. G. DEAN was a participant in a symposium on the Influence of the Map User on Map Design held at Queen's University Sept. 8-10, and delivered a paper on "Integrated Atlas Structure and Map Design."

PROF. J. P. WALLOT gave a paper, with PROF. G. PAQUET of Carleton University, at the Vth International Congress of Economic History in Leningrad, Aug. 10-14: "La Restructuration de l'économie et de la société canadienne au tournant du 19e siècle: une hypothèse." They also presented a paper on "La Modernisation de l'économie bas-canadienne, 1792-1812" to the last meeting of ACFAS (Association canadienne-française pour l'avancement des sciences), on Oct. 17 in Quebec City.

At the invitation of the University of Mashhad, PROF. R. M. SAVORY attended an historiographical conference at Mashhad, Iran, Sept. 11-16. The conference was attended by about 70 Iranologists, including delegates from Afghanistan, Pakistan, India, Japan, Canada and the United States. Prof. Savory presented a paper on "Abo'l-Fazl Bayhaqi as an Historiographer," which will be published in the proceedings of the conference. After the conclusion of the conference, Prof. Savory remained in Iran for a further week as the guest of the University of Mashhad.

PROF. KEITH ELLIS attended the Second Canadian Symposium on Applied Linguistics (University of Ottawa, May 28-31) and read a paper entitled "Aspects of the Teaching of Spanish in Canada with Special Reference to Ontario."

PROF. H. S. M. COXETER was visiting professor at the Australian National University during June and July, and delivered the fourth Felix Behrend Memorial Lecture at Melbourne. He also lectured on "Inversive Geometry" to the Mathematical Association of Victoria, on "The Five Platonic Solids" to the Mathematical Association of New South Wales, on "Similarities and other Affinities" to the Mathematical Association of Canberra, on "Finite Groups of Quaternions" to the Mathematical Institute, on "Twisted Honeycombs" at Adelaide, on "The Affine Plane" at Flinders and Monash, and on "Frieze Patterns" at Brisbane, Hobart and Sydney. Prof. Coxeter also lectured on "Frieze Patterns" at Cape Town, South Africa, and on "Non-Euclidean Geometry" at Durban, Pietermaritzburg, Pretoria and Stellenbosch.

Under the joint auspices of the Hebrew University and the World Federation of Bergen Belsen Associations, PROF. E. L. FACKENHEIM lectured on "The Impact of the Nazi Holocaust on Jewish Experience" at the Mansion of PRESIDENT ZALMAN SHAZAR of the State of Israel, in Jerusalem, during his visit to Israel this summer.

DR. H. E. JOHNS, on May 29, received an honorary doctor of science degree from McMaster University at their spring convocation for his distinguished contributions to biophysics.

PROF. J. V. IRIBARNE and S. R. SHEWCHUK attended the A.M.S. Conference on Cloud Physics in Fort Collins, Colorado, Aug. 24-27 and presented two papers, "J. V. Iribarne and M. Klemes, Electrification Associated with Breakup of Drops at Terminal Velocity in Air" (Preprints, p. 143-144) and "S. R. Shewchuk and J. V. Iribarne, 'Electrification Associated with the Splashing of Large Drops on Ice', (preprints, p. 149-150).

PROF. R. LIST stayed for five weeks in Boulder as a visiting scientist at the National Center for Atmospheric Research. Thereby, he participated in the colloquium on the Microphysics and Dynamics of Convective Clouds, and gave two lectures, one on "Hail Growth in One-Dimensional Models of Clouds" (July 23) the other on "Dynamics and Flow Patterns of Particle Ensembles" (Aug. 11). On July 22 he participated in the workshop on Electrical Effects in Thunderstorms also at NCAR. On Aug. 24-26, Dr. List attended the Confer-

ence on Cloud Physics at Fort Collins and presented a paper, "On the Number Distributions of Hailstones Growing in Updrafts".

PROF. J. W. MOFFAT attended the IV International Conference on High Energy Physics, Kiev, and presented a paper entitled "Model for $\pi\pi$ and $K\pi$ Scattering Satisfying Analyticity and Crossing Symmetry".

PROF. J. D. PRENTICE attended the same conference from Aug. 26 to September 4. Six experimental papers were submitted from Toronto; the results of five of these were presented in parallel sessions or by the rapporteurs.

PROF. B. P. STOICHEFF gave an invited lecture on "Light Scattering with Lasers" during the opening ceremonies for the new van der Graff Laboratory at the University of Western Ontario on June 29. He gave three lectures on "Stimulated Light Scattering" at the Light Scattering Summer School held at Northwestern University July 20-31. He attended the International Quantum Electronics Conference in Kyoto, Japan, Sept. 7-10 and presented a paper entitled "Brillouin Spectroscopy with Lasers". He also participated in the 1970 General Motors Research Laboratory Symposium on "The Physics of Opto-Electronic Materials" held in Warren, Mich. Oct. 5 and 6.

PROF. D. YORK attended the NATO Advanced Study Institute for Activation Analysis in Geochemistry and Cosmochemistry held in Oslo, Sept. 7-12. He presented a lecture entitled, "Determination of Geological Time with a Nuclear Reactor and a Mass Spectrometer", co-authors, Y. Yanase and G. W. Berger.

PROF. H. GORDON SKILLING attended the annual meeting of the American Political Science Association and presided over the meeting of the Conference on Communist Studies, of which he had been chairman during 1969-70.

PROF. LUBOMIR DOLEŽEL presented a paper entitled "Linguistics and Text Theory" at the Oct. 3 meeting of the Linguistic Circle of Ontario.

PROF. EMERITUS V. E. ENGLEBERT gave a paper on "Nuclear Behaviour in Normal and Leukemic Animals and Effect of Cytosine-Arabinoside". Aug. 2-8, at the 13th Congress of the International Society of Hematology in Munich.

University College

PROF. KENNETH QUINN visited the University of Indiana, April 16-18, on the occasion of its sesquicentennial and gave a lecture on "Critical Procedures: Fashions in Catullus". At the invitation of the University Center in Georgia, he lectured, April 28-30, at the University of Georgia at Athens, Agnes Scott College, and Emory University, as University Center Lecturer in Classics, 1970. Between May 7 and 14 he visited and lectured at Wilson College, Dickinson College, Gettysburg College and Franklin and Marshall College, as guest of the Central Pennsylvania Consortium. On Sept. 30 and Oct. 1 Prof. Quinn took part in a colloquium on Augustan Poetry held at the State University of New York at Buffalo, and conducted a seminar on "Horace's Lyric Poetry".

PROF. J. M. RIST attended a conference on "Plotino e il Neoplatonismo in Oriente e in Occidente" held by the Accademia dei Lincei, Rome, October 4-9, and delivered a paper entitled "Plotinus and Augustine on Evil".

PROFS. P. S. DEROW, T. G. ELLIOT, C. P. JONES, C. I. REID, G. V. SUMNER and M. B. WALLACE attended the meeting of Ancient Historians at State University of New York at Buffalo, May 8-9. Prof. Jones delivered a paper entitled "Greek Senators and Roman Politics".

PROF. F. J. MARKER and PROF. L.-L. MARKER (Drama Centre) attended the Second International Ibsen Seminar at the University of Cambridge, Aug. 3-8, where they presented a joint paper entitled "The First Nora: Notes on the World Première of *A Doll's House*". Proceedings of the congress will be published in book form later this year.

PROF. CÉCILE CLOUTIER-WOJCIECHOWSKA attended La Rencontre des Écrivains in Saint-Adèle May 29 and La Réunion de la Société des Poètes at la Maison Montmorency May 30. She gave a lecture on "La poésie québécoise contemporaine" at Glendon College May 6 and was guest professor at the summer courses of Laval University where she taught French Canadian poetry. Prof. Cloutier Wojciechowska also attended the *Journée de la Poésie* at Maison-Montmorency on Sept. 26.

PROF. B.-Z. SHEK gave an invited lecture at Atkinson College, York University, on "Freedom and Authority in French Canada: The Novelists' Viewpoints" on July 9.

PROFS. P. LEON and PHILIPPE MARTIN

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Glass-blowers span 50 years at the U of T

There is a lot of scientific ground between the early radio tubes (remember? they used to be called "wireless valves") and the electron microscope, but one member of the staff who thinks of them both as of only yesterday. Reuben Harold Chappell of the Department of Metallurgy and Materials Science played a part in the development of each.

There were other notable developments, too, like the celebrated Toronto Lamp, a mercury vapour source used in physics research, and the first successful liquification of the gas helium in North America and in the British Commonwealth. To all of these important and historic developments, Reuben Chappell made his own special contributions. Just recently, he celebrated his 50th complete year with the University and, during that whole time, he is proud to state, he never once took a day off for sickness.

Mr. Chappell came to U of T in the fall of 1920, at the age of 23, in answer to an advertisement placed in an English publication by Sir J. C. McLennan, then professor of physics. His experience till that time had been with a factory near his birthplace in Enfield, north-east of London, where he hand-crafted a variety of objects from electric lamp bulbs to radio tubes. The latter were often made on the personal instructions of Sir John Ambrose Fleming who, years before, had invented the first radio tube. As for the lamp bulbs, Reuben Chappell explains, "In those days, around the time of the first world war, even small lamps for domestic use were frequently hand-made."

Glass-blowing was such a rare skill in Canada at the time of Chappell's arrival that he found himself for a short while the only professional glass-blower on campus. Then, one month later, Arthur Hunt joined the Department of Chemical Engineering. The two have been with the University ever since, but have been joined by many more, as the number and size of scientific and engineering and medical departments have increased. But, for 44 years, Chappell was the only glass-blower in the Department of Physics, and those were 44 very interesting years, marked by the contributions of McLennan, Burton, Krebs and Hillier (of electron microscope fame), Crawford and Welsh (till recently chairman and still a professor in the Department), and that great master of the podium, Professor John Satterley, whose annual "liquid air lectures" were a constant fascination for old and young alike.

Reuben Chappell had a lot to do with liquid air and experiments at very low temperatures. For this, he was very well trained, having improved his glass-blowing skills in 1931 in the world-famous glass-blowing school of Leiden, Holland, where very low temperature research had been pioneered. He earned there the (for a foreigner) rare distinction of a diploma as "meester glasblazer"—master glass-blower.

Now in semi-retirement in the Department of Metallurgy and Materials Science, Chappell still enjoys the challenge of constructing a really complex piece of glass-work, such as the forty-jet mercury diffusion pump that he himself designed for achieving high vacuum. His spare time, he devotes to reading, to hospital visiting, which he has carried on for 40 years, and to colour photography.

Maybe it's the result of intense concentration, but all glass-blowers are said to develop strong individualism. In this respect, out-going, wise-cracking ("without a sense of humour in this department, you'd perish") Arthur Hunt, the philosopher-friend and counsellor of countless generations of chemical engineering graduate students, is poles apart from quiet and retiring Reuben Chappell. And, while in physics, the emphasis is so often on construction of some new, complex and exotic glassware, in engineering it tends to be less glamorous, and is frequently on the construction of lab-



Arthur Hunt

yrinthine assemblies of tubes and separating funnels and multi-channel stop-cocks that may look impressive but have little to boast from an aesthetic point of view.

Art Hunt knew very little about glass-blowing, he recalls, when he joined the department at the age of 20, and he was quite frank about his deficiencies. "But they told me I was a glass-blower", he says, "and I let it go at that." It was hard to learn the craft in those days, Hunt remembers, because it tended to be a family trade. "If you asked questions, they would politely show you the door." But Hunt was determined to master the art. "I used to hang around one glass-blowing shop in particular", he recalls, "and was always willing to clear up for

free. They thought I was a bit of a soft touch, but I was really a very diligent observer and always watched to see how various things were done."

Maybe, because he remembered those difficult days of learning, Art Hunt has always been free with his own knowledge and taught for 20 years at Central Tech. Fred Leslie, who is gradually taking over his work in the department, was one of his students there and freely admits his learning debt.

"Glassblowers are all hams at heart", says Art Hunt. "They love to show off". That is how he laughs off a yearly performance for which he was justly famous. After the Santa Claus parade, each year until recently, and by arrangement with departmental chairman G. Ross



Reuben Harold Chappell

Lord, of Mechanical Engineering, he performed miracles with molten glass for the benefit of children of the staff. For weeks before hand, in evenings after work, he would patiently assemble a huge collection of dachshund dogs and birds and elephants, so that, on the great day, he would have a toy ready for each of the little ones at the end of his demonstration.

On a shelf in his shop, there is a glass heron that he made for a married couple in his Department. "There were a pair of them, he recalls, but they brought back one to be repaired, one day. It was a busy time and, before I could get round to mending it, the couple became estranged, and eventually divorced. Now, the herons, too, will never be reunited."

Appointed & Promoted

Arts and Science

Newly appointed faculty members with the rank of professor include the following: JAMES C. RITCHIE (Botany and Scarborough), graduate of the Universities of Aberdeen and Sheffield. He has taught at University of Manitoba, Trent University, and for two years at Dalhousie.

A. J. POE (Chemistry and Erindale) is an Oxford graduate, has taught at Imperial College, Northwestern University, State University of Buffalo, and University of London.

J. L. H. KEEP (History), graduate of the University of London, has held posts in the School of Slavonic and East European Studies there, held fellowships at the Free University of Berlin, and the Russian Institute of Columbia University, and has taught at the University of Washington, and recently at the University of London.

G. M. MEREDITH-OWENS (Islamic Studies) has been with the Department of Oriental Printed Books and Manuscripts of the British Museum since 1953, since 1965 as deputy keeper. A graduate of Cambridge, he also lectured in Persian there, 1950-53, and studied Turkish at the School of Oriental and African Studies, London.

JOSÉ GOLDBERG (Physics) comes from the University of São Paulo of which he is a graduate. He has held posts at the Universities of Saskatchewan, Illinois, Stanford, the Latin American School of Physics in Rio de Janeiro, and at Université de Paris (Orsay).

SEYMOUR H. VOSKO (Physics and Erindale), graduate of McGill and Carnegie Institute of Technology, has taught at Carnegie Tech and at McMaster University. He has been with the Westinghouse Research Laboratories since 1964.

ALBERT A. BRAETON (Political Economy) is a graduate of Manitoba and Columbia Universities. He has taught at Université de Montréal, Carleton, Université Catholique de Louvain, the London School of Economics, and last year was visiting professor at Harvard.

WALTER F. BERNIS (Political Economy and Extension) was visiting here last year. He has degrees from the Universities of Iowa and Chicago, has taught at Cornell since 1963, and previously at Chicago, Louisiana State University, and Yale.

JOHN E. FLOYD (Political Economy and Erindale) is a graduate of the Universities of Saskatchewan and Chicago.

ALLAN BLOOM (Political Economy and Extension), with degrees from the University of Chicago, has taught at the Universities of Paris and Chicago, Yale, and since 1963 at Cornell. He has been co-director of the Greek Civilization Program, a new program of liberal arts studies for gifted students.

FERNANDES FLORESTAN (Political Economy and Extension) was Latin-American-in-Residence here last year. He has held posts in the University of São Paulo and in the Institute of Latin American Studies, Columbia University.

D. V. SMILEY (Political Economy and Erindale), graduate of University of Alberta and Northwestern University, has held posts with Northwestern and Queen's Universities, Department of External Affairs (service in Indochina), Government of Saskatchewan as consultant in local government administration, and since 1959 at U.B.C.

PAUL A. KOLERS (Psychology) has degrees from Queen's College and New York University. He has been with the Bell Telephone Laboratories, N.J. since 1968, and previously was with MIT; Harvard; USN Medical Research Laboratory; Engineering Psychology Branch, Behavioral Sciences Laboratory Wright-Patterson AFB; and Psychiatry Service, V. A. Hospital, West Haven, Conn.

N. J. SLAMECKA (Psychology) with degrees from Western Maryland College and the University of Pennsylvania, has held posts in the Veterans' Administration Hospital, Baltimore, the University of Vermont, and since 1967 in the State University of New York at Buffalo.

Associate professors appointed include (See page 5, col. 1)

Plans to help permit-holders to park at night

Reports have been received at the Parking Office from time to time that persons holding current U of T parking permits, who are required for some reason to return to the Campus in the evenings, experience difficulty in finding space in their regular parking areas or indeed anywhere on Campus. The following action is being taken to improve this situation.

Commencing immediately a number of spaces in the larger lots will be held after regular hours for use by permit holders only. If a space cannot be found in a more convenient location, permit holders will be able to use these designated areas.

The manned lots in which a number of spaces will be set aside for permit holders will be:

Taddle Creek Road/Medical Sciences Building
Knox College/Simcoe Hall
Bancroft Avenue (north of Russell Street)
Classic Avenue (south of Harbord)

This arrangement is designed to be sufficiently flexible to enable parking personnel to meet actual space needs as they become known without unnecessarily reducing the space available for cash parking. Permit holders are requested to assist in the introduction of this new arrangement by bringing to the attention of the Chief Security Officer (local 2372) as promptly as possible any problems which it creates or fails to solve in a reasonable manner.

Hare committee discusses 'university within a university'

(Continued from page 2)

of the trend towards specialization in modern university education.

Dean Riddick argued that it would be illusory to expect that members of the College faculty would be able to participate equally in the graduate work of the University. Various pressures, notably the unemployment of many holders of graduate degrees, were causing the government to shift its financial support away from graduate education. As Scarborough and Erindale Colleges grew and the size of the University's faculty grew, there would soon be a point reached where the number of faculty members wanting to participate in graduate teaching would far exceed the opportunity for graduate teaching. In these circumstances, it would be unreasonable to believe that the idea of equal access to the Graduate School would be maintained, and it would be more realistic to believe that the campus on which an individual did his undergraduate teaching would become a strong factor.

While acknowledging that most students favoured the retention of ties with the University, he argued that their reason for so doing was their wish to receive University of Toronto degrees. However, this was more a matter of form than substance. If undergraduate training were carried out autonomously by the College, the quality and reputation of the degree would come to rely more on the quality of the training offered by the College rather than on the fact that it was awarded under the auspices of the University of Toronto.

All of the student members who spoke indicated their favour for a solution that involved the continuation of the College's ties with the University. Mr. Onley reported that he had discussed the matter with a large number of students, who almost invariably favoured the continuation of the College's membership in the University. The Chairman asked the student representatives to let the Committee know of any change of mind on the part of students, should a change occur.

Dean Riddick, commenting in favour of separation, argued that it would be unlikely that Scarborough College faculty members would receive equal rights to participate in the School of Graduate Studies. Prof. R. C. Roeder felt that Scarborough faculty members should and would have equal access to the Graduate School.

Associate Dean Fallis, SGS, and Prof. D. P. Kerr reported that, to the best of their knowledge, no discrimination according to campus had ever occurred in appointments to the Graduate School.

Dean Colman agreeing that this was largely true, pointed out that certain criteria other than scholarly achievement were on occasion applied. For example, it had been argued that the need for a graduate course in a given field should be a criterion in appointments. In addition, the former Dean of the School of Graduate Studies had questioned the right of faculty members from Scarborough and Erindale to participate equally, as a right, in the School.

Prof. T. R. Lynch reassessed his argument that Scarborough College faculty members do not in fact, if they do in theory, have equal access to graduate students simply because graduate students in science do not in general like to come out to the College. Although it might be proposed that teaching loads be reduced in order to permit Scarborough College faculty members to do their graduate teaching on the St. George campus, this could not work successfully if the proposal were carried out in more than a few cases.

Dean Colman argued that departmental structure was fundamental to any consideration of an amended status for the College. For the issue of the departments was the basis for the serious questions of hiring, promotion and tenure, of curriculum, and of participation in graduate teaching.

Dean Colman indicated that his own views had changed significantly since the time of the submission of the College's Brief to the Commission on Uni-

versity Government. (It was recalled that the "amended status" proposal had used the C.U.G. Brief proposals on curriculum, academic rules, appointments and admissions to define the minimum that would be required for an adequate amended status.) In particular, Dean Colman believed that unified, tri-campus departments would no longer provide an adequate academic structure. Rather, Dean Colman proposed, there should exist campus entities (such as departments or divisions) for undergraduate teaching and tri-campus graduate departments for graduate teaching. The arrangement would be similar to current arrangements in College disciplines where there were separate undergraduate departments and unified graduate departments. The chairman of the graduate department would not be, necessarily, the same person as the chairman of the St. George campus undergraduate department, but might be someone else on the St. George campus or someone from the Scarborough or Erindale campuses.

Prof. Slater reiterated his proposal, from an earlier meeting, that there be created an independent undergraduate department on the Scarborough campus as soon as there were sufficient tenured members in the department on the Scarborough campus to grant tenure to other members. Dean Colman indicated general agreement with Prof. Slater's proposal, but he pointed out that the Council of Scarborough College may or may not want to replicate the St. George campus departmental structure. It may well prefer to retain a divisional structure or to create some other sort of structure. In any event, Dean Colman indicated that the major area where change was required was the structure of the graduate departments.

Prof. P. W. Cave opposed the proposal for separate campus departments. In matters such as hiring, it was clear that Scarborough College would want the involvement of the chairman (and perhaps others) from the graduate department. Involvement would be required because the candidate for the Scarborough campus department would also be a candidate, in due course, for the united graduate department. The much easier means of achieving consultation on appointments and other matters would be the retention of unified departments.

Prof. Patenall noted that the question of student attitudes towards the College had been raised in the Committee's deliberations. He offered to provide a statistical study of attitudes of applicants to the College based on the applicants' University and College choices on the Province-wide General Application Forms. He speculated that of the 570 students in first year at the College, about 400 had chosen the University of Toronto as the University of their first choice and had chosen Scarborough College as the College of their first choice within the University. Further, had the College chosen to admit all qualified applicants, it would have been possible to admit only students who had specified the University of Toronto and Scarborough College as their first university and college choices.

(Dean Colman's statement appears on page 5)

Computer Centre offers a free six day course in Fortran programming

The University of Toronto Computer Centre announces a six day free computer programming course which will be held in Room 101, Sandford Fleming Building, King's College Road.

Dates for the course are November 16, 17, 18, 23, 24 and 26. All the sessions begin at 5 p.m. and conclude at six.

The course offers instruction in the use of the FORTRAN language. There are no pre-requisites and no text books are required. Registration will take place at the beginning of the first class on Monday, November 16.

STAFF NOTES

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attended an International Symposium on Intonology in Prague on Oct. 6, 7, and 8, where Prof. Leon delivered a paper on "Patrons intonatifs de l'intonation expressive" and Prof. Martin gave one on "Reconnaissance automatique des patrons intonatifs".

Prof. ALBERT CHESNEAU lectured at the French Institute, New York, Oct. 27, on "Théâtre et Révolution chez Jean Genêt". The lecture forms part of the John Sanford Saltus Foundation Lecture Program.

Prof. HERMANN BOESCHENSTEIN has been awarded the "Grosses Verdienstkreuz". (The Great Cross of the Order of Merit) of the Federal Republic of Germany. The award was made in recognition of Prof. Boeschstein's accomplishments as a scholar and professor of German literature, and of his humanitarian work during World War II with the World Committee of the Y.M.C.A.

During the months of May and June Prof. D. B. REDFORD was director of the epigraphic expedition of the Society for the Study of Egyptian Antiquities to copy and photograph the texts and reliefs in the Temple of Osiris Lord of Eternity at Karnak, Egypt.

Victoria College

Prof. DAVID BRETT-EVANS attended the Fourth Congress of the International Association for Germanic Studies at Princeton University, Aug. 24-29, and gave a paper entitled "Die regionale Literatur des 19 Jahrhunderts - ein soziologisches Phänomen?"

Minutes of the Council of the School of Graduate Studies

Minutes

The minutes of the meeting of September 15, 1970 were approved.

Business rising from the minutes

Applications and Memorials Committee. Council accepted the proposal of Dean Baines that the motions of February 14, 1967 and March 16, 1967 be revised to state that Council was creating an Applications and Memorials Committee consisting of the Assistant Dean plus one member from each Division, thereby eliminating the word 'elected' from the motion and removing the stipulation that those on the Committee be members of Council.

Additional student representation on Council

The Chairman welcomed four additional student representatives:

Division I - H. J. Graff (History)
Division II - W. J. Dinan (Educational Theory)
Division III - G. J. Palacky (Physics)
Division IV - C. M. Godkin (Zoology)

Dean's report

Student Enrollment. There had been a full-time registration of 4376 students and the total enrollment figure was 6263.

Preparation of Theses. It had been decided to make available a set of guidelines which would acquaint students with the requirements for permanent recording of thesis material.

Reports of Associate Deans

Division I. Associate Dean J. H. Parker reported that the Degree Committee of his Division had dealt with requests for extensions in time from both Phil.M. and Ph.D. Degree students, and the Committee felt the present regulations should be reviewed to determine whether they should be altered or re-affirmed.

Division II. Associate Dean J. A. Sawyer reported that three new proposed Degree programs had reached the stage of consideration by external appraisers, and the appraisers' reports were expected by the end of December 1970.

Division III. Associate Dean J. N. P. Hume reported on a proposal from the Geology Department to engage in a part-time M.Sc. degree course of similar content to the full-time course and subject to the same standards of entry. Council endorsed approval of the development of this course. Associate Dean Hume conveyed his Committee's concern about employment prospects for Ph.D. graduates and at this stage Council con-

Emmanuel College

Prof. E. C. BLACKMAN received a Doctor of Divinity degree (honoris causa) from Pine Hill Divinity Hall, Halifax, on Sept. 17.

Principal E. S. LAUTENSCHLAGER received a Doctor of Divinity degree (honoris causa) from Huntington University in the Laurentian University of Sudbury on Sept. 18 and gave the Convocation address.

Prof. W. O. FENNELL is on a year's sabbatic leave in London, England.

St. Michael's College

Prof. R. J. SCHOECK, who is on leave for 1970-71 to serve as Acting Director of Research Activities at the Folger Shakespeare Library, Washington, read a paper on "Common Law and Canon Law in the Career and Writings of Sir Thomas More" at the Thomas More Symposium sponsored by the Anglo-American Associates and held at St. John's University, New York, Oct. 9 and 10. He continues as a member of the Board of Advisors of the Conference on British Studies *Bibliographical Handbooks* and recently was elected a member of the editorial board of the *American Journal of Jurisprudence* and one of the editors of the *Chaucer Variorum* to be published by the University of Oklahoma.

Scarborough College

Dr. V. VICTOR KINGSLEY participated in the Xth International Congress for Microbiology held Aug. 9 to 15 in Mexico City where he presented a joint paper with Dr. Judith F. M. Hoeniger of the School of Hygiene, entitled, "The Relationship of

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sidered a relevant paper giving statistics for the Convocations of Autumn 1969 through Spring 1970.

Division IV. Associate Dean A. M. Fallis reported that the Degree Committee of his Division had approved a recommendation that a student in the Institute of Medical Science be permitted to make use of part-time facilities at the Defence Research Laboratories. Council endorsed this approval. It was reported that the Degree Committee had approved also the re-definition of the residence requirements for a student in the Department of Anatomy, originally incorrectly stated as 3 years and now to be defined correctly as 2 years.

Council approved the extension by 6 months of permission for the Graduate Department of the School of Hygiene's students to use off-campus facilities. Council indicated that the arrangement should be reviewed at the end of the 6 month period, which followed the original grant of a 3 year period. Approval was given also for a Ph.D. student to spend the final year of his residence in research at the Public Health Laboratories.

Designated officers for school funds

Council agreed to recommend to the Board of Governors that the Dean and the Secretary of the School should be designated officers for the disbursement of blocked funds in certain foreign banks, arising out of fees paid by foreign students for the processing of their applications to the University of Toronto.

Changes in the 1970/71 calendar

Council approved a paper before it outlining proposed changes in the 1970/71 Calendar.

Pass/fail course

Council accepted the recommendation in a paper requesting the designation of certain courses in Drama and in the History and Philosophy of Science and Technology as Pass/Fail courses.

Graduate program in Metabolic Control

Council agreed to consider a submission proposing the establishment of a graduate program in Metabolic Control at its next meeting.

OCCS recommendations re theses distribution

Council asked for a report on this paper from the Executive Committees of Divisions in consultation with the Chief Librarian and the Research Board.

Appointed & Promoted

(Continued from page 3)

P. W. BALL (Botany and Erindale) who comes from the University of Liverpool where he has been research assistant to the Flora Europaea Editorial Committee.

J. D. DHIRASEKERA (East Asian Studies) was visiting here last year. He was educated at the University of Ceylon and at Cambridge, England, and the Sorbonne. He has been external examiner in Pali for the Ceylon Civil Service Examination, and external examiner in Pali and in Buddhist Civilization for Vidyodaya University of Ceylon and Vidyalandara University of Ceylon.

Ivo FISER (East Asian Studies) was also visiting here last year. He is a graduate of Charles University, Prague and has taught there and at the Indological Seminary.

KARL E. FRANCIS (Geography and Scarborough) was visiting at Scarborough College last year, and was previously at San Fernando Valley State College. He was educated at the University of Wisconsin, Oregon State University, of Alaska, and Pennsylvania State University.

MARTIN A. KLEIN (History and International Studies Program) graduate of University of Chicago and Northwestern University, has been editor of *Encyclopedia Britannica Junior*, has instructed at University of Rhode Island, and since 1965 at the University of California, Berkeley. He was Fulbright Lecturer at Lovanium University, Congo, 1968-69.

EZIO MARCHI (Mathematics), born in Italy, is a graduate in physics and mathematics of the University of Cuyo, Argentina. From 1965 to 1967 he was research associate at the Econometric Research Program of Princeton University. He has been with the University of New Mexico, Albuquerque, on leave from the University of Cuyo.

STEPHEN A. COOK (Mathematics and Computer Science) was educated at University of Michigan, and at Harvard, and has since 1966 been with the University of California at Berkeley.

PAVEL PELIKÁN (Political Economy and Scarborough), was educated at the Czech School of Technology, Prague, the Research Institute of Mathematical Machines, Prague, and European University Centre in Nancy, France. He has been research worker at the Research Institute of Industrial Economics, Prague School of Commerce, and was visiting research fellow at the Graduate School of Industrial Administration, Carnegie-Mellon University, 1967-69.

B. J. B. CALVIN (Political Economy) educated in India, and England, has an M.B.A. from York University, Toronto. Following war service in the East he had varied experience with chartered accountants in London and Hastings, England. He was at Queen's University from 1954 to 1963, and for five years after was director of Education and Admissions, Institute of Chartered Accountants of Ontario.

HOWARD B. RIPSTEIN (Political Economy and Extension) was educated at Sir George Williams University, McGill and Queen's Universities. He is a chartered accountant and has taught at the University of Windsor, and since 1966 at Loyola College.

N. P. MORAY (Psychology and Scarborough) is an Oxford graduate. He has held posts at Oxford University's Institute of Experimental Psychology, Universities of Hull and Sheffield, MIT, and Brandeis University.

ROBERT J. GIBBINS (Psychology) is a graduate of Queen's University with a Ph.D. from U of T. He has taught at both universities, and held posts with the Alcoholism and Drug Addiction Research Foundation.

W. W. ISAJIW (Sociology and Scarborough) has degrees from La Salle College, Philadelphia, and the Catholic University of America. He has taught at St. John's University, New York, University of Windsor and Wayne State University. Last year he was at Harvard on a Canada Council fellowship.

Newly-appointed assistant professors include SHELDON A. SPER (Anthropology and Extension) who comes from the State University of New York at Buffalo where he has instructed in linguistics. His degrees were earned at the Universities of Rochester and Minnesota.

R. A. WRIGHT (Anthropology and Extension) has been teaching at McGill University since 1968. He has studied at Harvard College (astronomy and linguistics), at MIT and the University of Iceland.

M. D. LEVIN (Anthropology) from the State University of New York at Buffalo, studied at the Universities of Manitoba and British Columbia and at Princeton.

MRS. PAMELA M. JOY (Botany and Extension) is a graduate of the University of Bristol and has held posts at Rothamsted Experimental Station, Bristol University, Imperial College and Sir John Cass College, London, Cambridge University, University of Illinois and at U of T.

JOHN W. GREAR, JR. (Botany) has degrees from Austin Peay State University, Tennessee, Vanderbilt University and Columbia. He comes from Louisiana State University.

S. G. WHITTINGTON (Chemistry) graduate of Cambridge has held posts with Unilever Research Laboratory, Welwyn, England, at the Universities of Toronto and California.

MITCHELL A. WINNIK (Chemistry and Erindale) from the California Institute of Technology, has studied at the University of Wisconsin, Yale, and has his Ph.D. degree from Columbia.

J. L. MASSON (East Asian Studies) studied at the University of Montevideo in Uruguay for two years, transferred to Harvard, then studied at the University of Paris. Under a Fulbright Fellowship he worked in India at Calcutta, Bombay and Madras, and recently at Poona. He has taught at Brown University.

JOSEPH W. SHAW (Fine Arts) with degrees from Brown University and the University of Pennsylvania, has been excavation architect with expeditions from Athens and Rome and in Crete.

C. J. SPARROW (Geography and Scarborough) was educated at Bristol University and at the University of Auckland, where he has been teaching.

STEPHEN E. KESLER (Geology and Extension) with degrees from University of North Carolina and Stanford, has been teaching at Louisiana State University.

J. E. MARSDEN (Mathematics and Erindale) from the University of California, Berkeley, has degrees from Toronto and Princeton.

C. R. CRAWFORD (Mathematics and Erindale) has degrees from Oberlin College and the University of Michigan and has held posts in the University of Michigan and Stillman College, Tuscaloosa.

JOHN P. QUINN (Mathematics) educated at the Universities of Iowa and Wisconsin, has been visiting post-doctoral Research Fellow in the Department of Computer, Information and Control Sciences at the University of Minnesota.

PATRICK KEAST (Mathematics) educated in Scotland at Edinburgh University and the University of St. Andrews, where he

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Statement by Dean Colman warns against 'a partial solution'

Prof. S. John Colman read a statement at the Oct. 13 meeting of the Presidential Advisory Committee on the Status and Future of Scarborough College. Prof. Colman explained that he spoke as one "associated with the new campuses since Scarborough opened in 1965" (first as Dean of Erindale College, then as Dean at Scarborough).

Dean Colman's statement, in part, follows:

I have been more than 17 years in university administration, always in situations not at all conventional or routine. I believe I can now speak with some objectivity. I mean by that not "without commitment" or "with no point of view". I mean that the axes I have to grind are respectable and public. They are those of the purposes a university exists to serve, namely good teaching and the fostering of an atmosphere of ideas. And these purposes, of course, are the most complex and difficult.

As I concentrated my thoughts about the College and the University during the summer, I became convinced that the greatest danger we faced in beginning this very difficult committee was that a partial analysis of our problem would lead us into a partial, and therefore unstable, solution. There is no doubt that some aspects of the problem are formidable, others less so. It is all too seductive to conclude that the task of sensible men is to deal piecemeal and quickly with what can most easily be dealt with, or what may seem so, while leaving the more complex questions unexplored, and allowing them to sort themselves out insofar as they are acknowledged to exist at all. But I for one cannot associate myself with apparent solutions that project on to the lives of future students and faculty the ambiguities of the past and present. Moreover, when one examines them closely the various aspects of the problem are inter-related. I do not mean that the logical or practical relationship is the same throughout, but that it is impossible to grasp realistically the situation we have to deal with unless one uses unifying explanatory conceptions that lead one out to all the individual problems...

I found it impossible to write (in "Why the review became necessary") about the problem at all without using the notion of the College as an entity that already exists. This entity could not be specified unambiguously, either as intention and purpose or as organization in the University, because the originating and continuing conceptions of what it was to be and is reflected ambivalence in this University towards the teaching of large numbers of its students — those in the General Courses. I tried to show that to pursue the consequences of these attitudes in the University, and at the same time to acknowledge the fact of Scarborough College as an entity, is to grasp our range of specific problems as a unity.

For example, we might begin with the question of undergraduate curriculum. Its future was uncertain when the College was begun, and attempts to make good the promise of the Provisional Plan, that Scarborough would in time work out its own curriculum, have led, in time, to difficulties in some disciplines, and the full realization that the Provisional Plan left the College Council and the Council of the Faculty of Arts and Science potentially in conflict. Thus it has been natural for all concerned to think of ways of allocating more precisely the responsibility for the College's undergraduate curriculum. It is when it is seen as equally natural to deal separately with the undergraduate question that difficulties arise. For it is not merely a matter of rearranging the committees of the Faculty Council. An acceptable undergraduate curriculum is even more a matter of the quality of staff and their availability to students. The quality of staff involves one in considerations of the part Scarborough faculty play in the work of the Graduate School. So University policy is added to Faculty of Arts and Science policy as needing our

attention. And the quality of staff and their availability are questions that make it necessary to ask what is the relationship between Divisions of the College and Departments of the Faculty (and of the Graduate School). They make it necessary to question the continuing credibility of tri-campus departments.

The question of divided loyalties, that is of the proper amount of attention that undergraduates at Scarborough, and the College itself, have the right to expect of faculty, brings into focus the order of priorities that it makes sense for a university to have nowadays. The relationship between research, graduate teaching, undergraduate teaching, administration, and outside work becomes an issue. Public and University policy are involved. Which leads us unavoidably to the basic question of the use by universities of the Government's formula grants. Again it is the graduate portion that is the immediate and most obvious budgetary problem. But administrative charges and the appropriate treatment of part-time students are no less important issues — the latter particularly so. The part-time student's problem at Scarborough, in the sense of the financial support we give him, is a special case of the general fairness or unfairness of the amount of the College's income that goes to undergraduate education. Behind all these questions stands the fundamental one of planning buildings for the future. The sum of all these uncertainties is expressed by our inability to negotiate successfully with the Government on our capital position, and therefore our inability to match our building plans with the capital formula grants that the Government is willing to give us.

Unfortunately, to see these specific problems as a unity does not in itself solve them, but it may deter one from making a partial analysis or from underestimating the magnitude of the problem as a whole. And it does above all make possible a solution, or so I believe. For there is the inherent recognition, in this way of looking at things, that there is something structurally wrong with our present situation. The nature of the problem might be called objective, not personal...

I agree that we should divide ourselves in order to deal more efficiently with distinguishable aspects of our problem. But commissions are possible only if there is an agreed context. Now I do not mean by "agreed context" an "agreed solution". I mean an agreement on what is sufficiently desirable as a possible outcome of our Committee to serve as a focus of discussion. If there is no such focus, commissions to which we delegate various topics will be wasting their time in the uncertainty that has been the hallmark of all talk hitherto about this new campus. But an agreement that to focus discussion in a certain manner is likely to be fruitful could enable us to pass beyond these uncertainties. We would be saying that a certain sort of outcome was possible, even likely, but we would not be committing ourselves.

How, it might be objected, are we to choose such a context, when already it is evident in the Committee that opinions on the nature of the present situation vary, for example as they do among Scarborough faculty. All such comments incorporate explicit or hidden values and interests. Yet they all tend to be made from limited experience. They are genuine, of course, but unavoidably partial. I am concerned, therefore, lest the Committee remain at an obscure level of disagreement.

May I suggest that, as a way forward, it should be asked if the analysis in "Why the review became necessary" is roughly right and acceptable... Is the outline as a whole approximately right? Does it bring together all it deals with into a coherent whole that is intelligible? That is, does the analysis help to explain why we are here — to understand what kind of problem we have to deal with?

If you agree that the analysis is at least grossly true, then I believe that the options confronting us are few. I also

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Plays by Samuel Beckett and Francis Warner on campus

A production of the two most recent plays, *Breath and Come and Go*, of this year's Nobel prize winner, Samuel Beckett, and the North American premiere of *Maquettes*: a trilogy of one-act plays by Francis Warner, an Oxford don, will be at Hart House Theatre from Nov. 16 to 21.

Mr. Warner's plays were staged at the Oxford Playhouse Theatre in July; Harold Hobson called them "one of the richest texts encountered in the theatre for a long time". The plays went to the Edinburgh Festival for the first two weeks in September, and *The Sunday Times* referred to them as "one of the two triumphs of this year's Edinburgh Festival".

The plays are being presented by the University of Toronto; St. Peter's College, Oxford; the Irish Theatre Society; and A. J. Latner, as a theatrical tribute to the memory of Samuel J. Zacks. Mr. Zacks was an Honorary Fellow of St. Peter's College, and made the breakthrough donation to the Samuel Beckett theatre which Francis Warner has founded in Oxford.

The show is being performed by the original cast from England, and is being directed by Alan Schneider.

Tickets are \$4 and can be obtained at the Box Office, Hart House Theatre (928-8668). Curtain time is 8.30 p.m. from Nov. 16 to 21 inc. and on Nov. 18 and 21 there will be matinees at 5 p.m.

STAFF NOTES

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Selenomonas sputigena to other Selenomonads". Prof. Kingsley also visited the National School of Agriculture in Chapingo where he discussed with Prof. L. Fucikovsky developments in the application of bacterial pesticides.

Medicine

DR. MICHAEL LENZNER was elected a member of the International Society of Infectious and Parasitic Diseases. By invitation, Dr. Lenzner delivered, on the 10th anniversary of the International Society of Tropical Dermatology, the Rita W. Garfield Weston Memorial Lecture on "Host-parasite Relationship and Tissue Response in Tropical and Parasitic Diseases" on Oct. 12 at Rockefeller University, New York. Dr. Lenzner has been invited to join the International Advisory Board of *Tropical Doctor*.

DR. A. L. HUDSON discussed "Acne Vulgaris" at the Sunnybrook Hospital Family Physician Continuing Education course on Sept. 19.

DR. G. FORSTNER participated in a symposium on Intestinal Enzymes, 4th World Congress of Gastroenterology, Copenhagen, in July. He delivered a paper on "The Solubilization of Surface Glycoproteins by Papain."

Between Sept. 9 and 12 Dr. A. RAPORT was a visiting clinician at the Lakehead summer school in Thunder Bay where he was the discussant for several case presentations, conducted a fireside chat and gave the following lectures: "Management of Hypertension"; "The Kidney in Toxemia of Pregnancy" and "An Approach to Urinary Infections".

DR. R. S. MCPHEDRAN attended the International Congress of Neuropathology, Paris, France, from Aug. 31 to Sept. 4.

DR. PHILLIP S. ROSEN did a half-hour program on the management of the rheumatoid on Sept. 2 for closed circuit cable T.V. in Newmarket. Dr. Rosen also delivered a lecture, Sept. 24, on "Patterns in Arthritis" at the National Defence Medical Centre at Ottawa. He was on "Topic", on Channel 9 speaking about patients with arthritis on Sept. 25. In conjunction with the Canadian Arthritis and Rheumatism Society he is in a program on the role of the physiotherapist in the management of the patient with rheumatoid arthritis on CFTO-TV which will be screened later on.

DR. T. T. ZSOTER presented a paper in June at The International Study Group of Cardiac Metabolism in Stowe, Vt. From Sept. 6 to 12 Dr. Zsoter attended the 6th World Congress of Cardiology, in London, Eng. He also presented a paper at the Canadian Cardiovascular Society meeting, Ottawa, Oct. 15-17 entitled "Effect of Chlorthalidone on the Vessels".

DR. E. D. WIGLE delivered talks: "Pathophysiological Considerations in Muscular Subaortic Stenosis" at the CIBA Foundation Study Group on Hypertrophic Obstructive Cardiomyopathy, Sept. 4, London, Eng., and "The Myocardial Defect in Hypertrophic Obstructive Cardiomyopathy" at a symposium entitled "Recent Advances in Cardiomyopathy" at the World Congress of Cardiology, London, Sept. 11. Dr. Wigle also gave a lecture at the King Paul Hospital in Athens to the Department of Medicine at the University of Athens on Sept. 24. The title was "New Concepts in Muscular Subaortic Stenosis".

DR. W. O. GEISLER attended the 1st Spanish American Congress of Physical Medicine and Rehabilitation in Estoril, Portugal, Sept. 27-Oct. 1. He was invited as a guest speaker to present a paper entitled "Spasticity and its Management in the Spinal Injured Patient".

DRS. N. FORBATH and A. KENSHOLE attended a symposium on Insulin Synthesis and Secretion at Colorado Springs, Oct. 3-4.

DR. PETER G. FORBATH attended the International Congress of Cardiology in London, England in September.

DR. J. W. MEAKIN attended a meeting of the Breast Cancer Task Force at the National Institutes of Health at Bethesda, Md., on Sept. 21.

DR. D. H. COWAN gave a lecture to the Ontario Antibody Club on Sept. 24 entitled "Human Bone Marrow Transplantation".

DR. DAVID OSOBA gave the following seminars and lectures: a) "Interactions cellulaires dans les réactions immunitaires" at the Institut de Cancerologie et d'Immunogenetique, Hôpital Paul-Brousse, Villejuif, France, on Sept. 14; b) "Studies on the Immune Response in Cell Culture", Sir William Dunn School of Pathology, University of Oxford, on Sept. 15; c) "Separation and Characterization of Immunologically Reactive Cells", National Institute for Medical Research, Mill Hill, London, England, on Sept. 16; d) "Bone Marrow Transplantation in Acute Leukemia" Chester

Beatty Research Institute, London, on Sept. 16; e) "The Cellular Basis of Immunity", Memorial University of Newfoundland, on Sept. 18; f) A series of lectures on "Differentiation in the Immunological System" during his visit as an MRC Visiting Professor to the University of Manitoba, from Sept. 28 to Oct. 2; g) "Current Status of Cellular Interactions in the Immune Response" to the Manitoba Antibody Club, Winnipeg, Sept. 30.

DR. E. G. CROSS presented two papers at the College of Family Physicians of Canada, Ontario Chapter, Oct. 5, 6, 7 entitled "Making Sense of Thyroid Function Tests" and "Changing Sexual Attitudes of the Adolescent Girl".

DR. JOHN E. MORCH and DR. LEONARD SCHWARTZ presented the following paper at the Sixth World Congress of Cardiology in London in September entitled "A Study of Left Anterior Descending Coronary Artery Obstruction and Measurements of Its Flow".

DR. K. G. MCNEILL attended a meeting sponsored by the International Atomic Energy Agency on Dynamic Studies with Radioisotopes in Clinical Medicine and Research at Rotterdam, Aug. 31-Sept. 4. He also visited laboratories conducting in vivo neutron activation analysis work at Patten (the Netherlands), Harwell, Birmingham and Glasgow (U.K.).

DR. CALVIN recently gave an invited address at McMaster University entitled "Hypothalamic and Pituitary Control of Gonadal Function". The meeting was held at the Henderson General Hospital on Sept. 28. He also spoke at Queen's University to the Department of Obstetrics and Gynaecology on Oct. 6 on "The Pituitary Confederation".

DR. ROBERT L. RUDERMAN presented a paper, "The Effect of Intestinal Resection on Gastric Acidity in the Rat" at the Surgical Forum of the American College of Surgeons Annual Meeting in Chicago, Oct. 12-16.

DR. I. H. KOVEN presented a paper at the Surgical Forum of the 56th Annual Clinical Congress of the American College of Surgeons held in Chicago in October.

DR. R. O. HEIMBECKER was a special guest of the 11th International Congress of Diseases of the Chest of the American College of Chest Physicians at Lausanne, Aug. 3. He presented a paper on "The Role of Emergency Infarctectomy In The Treatment of Acute Myocardial Infarction". He then appeared on a symposium in which he discussed "The Surgical Treatment of Coronary Artery Disease". At the same meeting he made a special movie presentation of "Resection for Acute Myocardial Infarction". Dr. Heimbecker was a special guest at the World Congress of Cardiology in London, Eng. on Sept. 10. He presented a paper on "Surgery for Acute Myocardial Infarction", after which he took part in a round-table discussion on "The Surgical Treatment of Coronary Artery Disease".

Applied Science and Engineering

DEAN J. M. HAM has been invited by the Canadian Council of Professional Engineers to represent Canada on the Committee on Engineering Education of the World Federation of Engineering Societies. The work of the new committee is sponsored by UNESCO.

PROF. M. R. PIGGOTT described work being carried out in the Engineering Faculty on fibre and thin plate reinforced materials, and discussed the toughness of such materials, at the Illinois Institute of Technology, and the Universities of Minnesota, Utah, Washington, British Columbia, Calgary and Alberta, during late May and June. He also visited Profs. W. A. Tiller and Stanford, and Profs. Zackay and Gerberich at Berkeley, to discuss fracture of engineering materials.

PROF. H. L. WILLIAMS chaired the first session on Polymer Engineering held in connection with the recent C.S.Ch.E. Conference in Sarnia. Interest in and attendance at this session, devoted to a new and growing aspect of Engineering, was most encouraging.

PROF. P. M. WRIGHT attended the annual general meeting of the Engineering Institute of Canada in Ottawa Sept. 16-18, where he presented a paper "Optimum Design of Plane Frames Using a Multi-Mode Scheme".

PROFS. ISMAIL B. TURKSEN and A. G. HOLZMAN will present a paper on "Short Range Planning for Educational Management", at the 38th Meeting of The Operations Research Society of America, Oct. 28-30 at Detroit.

PROFS. G. R. LORD and H. J. LEUTHEUSER attended the 1970 Symposium of the International Association for Hydraulic Re-

(See page 7, col. 3)

Statement by Dean Colman warns against 'a partial solution'

(Continued from page 5)

believe that they are determined by the structural character of the difficulties we have to settle. It is important to recognize that ambivalence and its resultant ambiguity are not the workings of malevolence. They may be associated with moral failings, but it would be a mistake to see them as the product of personal wickedness. Therefore they have to be taken all the more seriously, with each aspect of the ambiguous attitudes used in our solution. The whole of the existing confusion must be examined to see what can be made of it.

I mean, for example, that we should take seriously both the Provisional Plan's assertion that Scarborough College would be a novel entity in the University of Toronto, and the CUG Report's view, or assumption, that it is not; both the Provisional Plan's view that the staff of the Colleges should decide their own future, and the original restriction of the Colleges to the General Courses; and both sides of the statement in the Provisional Plan that Scarborough marked a new phase in the University's history — both "new phase" and "the University's history".

I used at one time to make the mistake of dismissing the Provisional Plan as a false and confused cover for something or other. I realize now that it is not, but that it reflects ambivalence and is full, so to speak, of implications unpursued — that *could not* be pursued at that time. In working out these implications now we should look to the traditions of this University for our solutions, not outside.

I say this because the College has been started within the University of Toronto and on the assumption that it will remain so. Faculty and students have so proceeded. There has been uncertainty, unquestionably: but to the point of secession? The answer of the great majority would be no.

The argument then leads inexorably, I believe, to a solution along the lines of the "amended status" possibility. It is exceedingly radical without involving separation. It thus offers some promise of dealing with the Scarborough problem as a whole. But it is also exceedingly traditional, and it is so in an appropriate way. On the St. George campus the distinctiveness of colleges is deplored by many, but at Scarborough and Erindale distinctiveness is possible.

I believe the consensus of this Committee could be found here.

If this is so, we have our context. We should establish a hypothesis and test it

out in detailed discussion in commissions.

The terms of the hypothesis are those of item 8, "An adjusted position in the University of Toronto" in the paper "Scarborough College: Some Possibilities for the Future"; in particular, from page V.1.17:

"On undergraduate curriculum and policies, academic appointments, academic rules-structure and arrangements in general, and admissions, the College would need at least the degree of autonomy within the University outlined in the Scarborough submission to CUG. It would need to share as of right in the University's graduate teaching; thus a new structure of graduate departments would be required, because it would be sensible to abolish the fiction of unified undergraduate departments with members on three campuses. The College would need to be assured of the continuation of its separate annual budget, and of equitable payments to it on graduate account and from it for administrative services provided by the St. George campus. It would not be right for the St. George campus to lessen its financial problems at the expense of Scarborough undergraduates. Assurances would also be needed from the University and Department of University Affairs that research facilities could continue to be built and equipped at Scarborough without reduction of the College's capital entitlement for undergraduates. The University should take the television studios into its own list of existing facilities.

"The College would need freedom to make its own administrative appointments for duties different from any on the St. George campus, or so specific in scope as to be conveniently separated from those downtown. In particular, the College would need the ability and the right to communicate direct with DUA on both operating and capital formula matters and on general policy. Similarly, it would need distinct membership of some kind in CPUO and AUCC. Finally, it should share equitably in the burdens and benefits of the University's fundraising.

What, then, is 'the College' on this set of assumptions? It is far more than a slightly-adjusted version of the status quo. Has it not the special status of a university within the University?"

But item 8. as a whole should be considered.

The main areas for commissions could easily be worked out were agreement reached to proceed in such a way as I have suggested.

Seminars, tours, and dinner to mark Business School opening

Staff, students and alumni of the School of Business have planned a celebration on Thursday, Nov. 19, to mark the opening of the new quarters the School now occupies at 246 Bloor Street West. There will be seminars, tours of the School, refreshments, and a dinner to commemorate the occasion.

The program begins with two hours of seminars. There will be two concurrent sessions from 3.15 to 4.15 p.m.: "Managing the Generation Gap", a discussion of new ideas in personnel management and organizational behaviour and other topics which may include organizations and environment and managerial motivation, led by Profs. M. G. Evans, W. R. Jack, D. R. F. Morrison, D. A. Ondrack and E. L. Vitalis; and "Optimal Timing of Capital Expenditures", led by Prof. M. J. Gordon, with Profs. P. J. Halpern, G. D. Quirin and W. R. Waters taking part in the discussion.

From 4.15 to 5.15 two more concurrent sessions will be held: "Life Style and Consumer Behaviour", led by Prof. D. J. Tigert, with Profs. D. W. Greeno and M. S. Sommers participating; and "Operations Analysis", a discussion of advances in the field and their application with Profs. J. E. Dooley, A. E. Paull, D. F. Shanno and R. N. Wolff taking part.

After the seminars, there will be guided tours of the new building, with refreshments served before and after the tours. The final event of the day is a reception at 6.45 and an alumni-student dinner in Hart House, at which the speaker will be Stephen Lewis, recently elected leader of the New Democratic Party in Ontario, whose topic will be "The NDP and the Corporate Community".

The opening day events have been planned by a committee headed by Prof. Jack and David McKeown, president of the School of Business Alumni Association. Tickets are available at \$10 each from Alumni House, Willcocks Street, and include all the day's activities.

The School of Business moved into its new quarters, the former Texaco building at Bloor Street and Bedford Road last summer, after having been for some years in a large house on the east side of St. George Street, south of Bloor.

Library Council election

Prof. Gregor, candidate in Division II — Social Science, is a professor in the Department of Political Economy, not on the staff of the School of Library Science as inadvertently listed on the ballot received by members of Division II,

The whole world is a laboratory for these young conservationists

Four recent graduates of U of T are on the verge of a great adventure: a two-year study of parks and conservation areas in 52 countries. Their infectious enthusiasm and their determination to learn how man can better his relationship with his natural environment have won wide support.

A long list of very important people who have given them letters of endorsement is headed by Prime Minister Trudeau. Principal A. W. F. Plumptre of Scarborough College is writing to the ranking Canadian diplomat in each country on their itinerary. Many of the resources needed have been either donated or supplied at a discount by commercial interests. They have a \$1,000 federal grant.

Their personal savings of \$6,000 were committed long since. A major problem that remains unresolved is about \$10,000 to cover ocean transport for themselves and their campmobile. They must find someone willing to post a bond of

\$4,600, returnable with interest: this would support a Carnet, an international guarantee that their vehicle will not be sold in a foreign country, an "Open, Sesame" at the scores of border crossings ahead. When these two requirements are met, they'll be off.

The young men involved in what they have named the Canadian Global Expedition are Dale DuQuesnay, Ronald Greeley, Killian O'Donovan and Joe Grieco. One is a geographer, one an economist, another a philosopher-historian and the fourth a civil engineer. Their Canadian headquarters is Mr. DuQuesnay's home, 230 Conlins Road, West Hill 782, Ontario. The telephone number is (416) 284-5079.

In a report they are preparing for the Federal Government and the book they plan to put together the four conservationists promise to acknowledge any help given by sponsors. They will try to have the report ready for the International Conference on Parks which is scheduled for Banff in September 1972.

Appointed & Promoted

(Continued from page 5)

has been employed, was visiting at Toronto in 1968-69.

ERIC MENDELSON (Mathematics and Scarborough) has B.Sc. and M.Sc. degrees from the University of Manitoba and his Ph.D. from McGill.

JOHN B. WILKER (Mathematics and Scarborough), Toronto graduate, has been teaching at Pahlavi University, Shiraz, Iran.

WILLIAM D. LAXIN (Mathematics and Erindale) graduate of MIT and the University of Chicago, has taught at Chicago and at UCLA.

S. J. PIERCE (Mathematics and Extension) comes from the National Bureau of Standards, Washington. He is a graduate of Stanford University, and the University of California.

CHARLES H. CHASTAIN (Philosophy and Scarborough) studied at Davidson College, University of North Carolina, and Princeton, and has taught at the latter two institutions, and at University of California and Cornell.

ALASDAIR I. F. URQUHART (Philosophy and Erindale) with degrees from the Universities of Edinburgh and Pittsburgh has been teaching at Pittsburgh.

MISS CHRYSTINE E. CASSIN (Philosophy and Erindale) with degrees from Oxford and Florida State University, has taught at Florida, at Naunton Park School in Britain, and at Kinnaird College, University of Punjab, Lahore.

A. W. KEY (Physics and Erindale) graduate of the University of Aberdeen and of Oxford, has taught at the University of Natal, Durban, and since 1968 has been visiting scientist at the National Accelerator Laboratory, Batavia, N.Y., professional associate at Carleton University, and teaching at U of T.

RALPH A. WIGGINS (Physics) is a graduate of the Colorado School of Mines and of MIT, where he has been research associate for four years.

D. J. DUNLOP (Physics and Erindale) has three degrees from U of T with post-doctoral experience at the Institut de Physique du Globe de l'Université de Paris et CNRS Laboratoire de Géomagnétisme, St-Maur, France, and at the Geophysical Institute and Institute for Solid State Physics, University of Tokyo.

GEORGE I. A. STEGEMAN (Physics and Erindale) has B.A.Sc., M.Sc. and Ph.D. degrees from Toronto.

RICHARD SANDBROOK (Political Economy and Scarborough) studied at Carleton University, U of T, and the University of Sussex. He has taught in the Department of Government, University College, Nairobi.

DONALD E. CAMPBELL (Political Economy and Scarborough) studied at Queen's University and at Princeton and has taught at Princeton.

MRS. SUSAN G. SOLOMON (Political Economy and Scarborough) studied at McGill and Columbia Universities and was a U of T Exchange at Moscow University, 1968-69.

BALVIR SINGH (Political Economy) studied at Allahabad and Lucknow Universities and at the Delhi School of Economics. The past year he has been a post-doctoral Fellow here. He has taught at University of Delhi, and at Glendon College in Toronto.

MICHAEL LANDAUER (Political Economy and Erindale) studied at Toronto, at Yale, at the Mandarin Training Centre, Taipei, Formosa, and at the Yale Foreign Language Institute.

R. B. DAY (Political Economy and Erindale) has B.A. and M.A. degrees and a diploma in Russian and East European Studies from Toronto, and did doctoral research at the School of Slavonic and East European Studies, University of London. He has lectured in Soviet History to University of London students.

E. BRUCE HURT (Political Economy and Scarborough) has degrees from UBC and the University of London and has been teaching at UBC.

DONALD M. THOMSON (Psychology and Erindale) has degrees from the Universities of Melbourne and Toronto. He has been working towards his doctorate here.

MRS. K. K. DION (Psychology and Scarborough) studied at Wellesley College and the University of Minnesota. For two years she has been research assistant at the Laboratory for Research in Social Relations.

ANDY KUKLA (Psychology and Scarborough) was educated at the University of California, Los Angeles, and has Ph.D. degrees in both philosophy and psychology. He has taught there and at California State College, San Francisco.

N. W. MILGRAM (Psychology and Scarborough) studied at the University of California at Berkeley and at McGill, and was an NIMH postdoctoral fellow at Princeton.

G. H. TRUMBULE (Psychology) was educated at the University of Pennsylvania and has held posts with a law firm, at Walter Reed Army Institute of Research; at Space Research Laboratory, University of Maryland; and at the Institute for Behavioral Research, Silver Spring, Md.

MRS. JANET SALAFF (Sociology) studied at Smith College and at the University of California at Berkeley. From 1967 to 1969 she did research at Universities Service Centre, Hong Kong, and has also taken courses at the Sorbonne, the Monterey Institute of Foreign Studies, and New Asia College, Hong Kong.

D. W. MACGILL (Sociology and Extension) studied at Acadia and McGill Universities and at Washington University, St. Louis. He has taught at St. Francis Xavier and Washington Universities.

A. H. SMITH (Sociology and Extension) has been working on his doctorate at Princeton, having earned his B.A. in Social Science from Leicester University, England.

JEFFREY G. REITZ (Sociology and Extension) was educated at Columbia University, and has held posts there in the Institute for the Study of Science in Human Affairs, the Department of Sociology, and the Electronics Research Laboratories.

JOHN H. SIMPSON (Sociology and Extension) studied at Seattle Pacific College, at Princeton Theological Seminary and at Stanford University. He has taught at Princeton and at Stanford.

L. L. HOWARD (Sociology and Scarborough) was educated at Whitlister College, University College of Ghana and at Harvard. Since 1967 he has lectured at University of Michigan.

W. G. SPRULES (Zoology and Erindale) with a B.A. from Queen's has been working for his doctorate at Princeton on an NRC scholarship.

STAFF NOTES

(Continued from page 6)

search in Stockholm Aug. 23-26. Dr. Leuthesser presented a paper (co-author, D. A. P. Jayasinghe) on "Zero-Flow Water Hammer". Prof. Leuthesser visited the firm of Kempf & Remmers in Hamburg, Germany, Aug. 14, to discuss details of manufacture and installation of the new towing channel facility in the Mechanical Building.

DR. F. P. J. RIMROTT, Canadian Representative to the General Assembly of the International Union of Theoretical and Applied Mechanics, attended the Assembly's meeting in Liège, Belgium, on Sept. 27. Dr. Rimrott has returned from sabbatical leave, which he spent at the Second Institute of Mechanics at the Technical University of Vienna. During the year, he delivered a series of three lectures on Satellite Dynamics at the T. U. Braunschweig. He also participated in a one week long colloquium on Systems Mechanics at the Mathematical Research Institute in Oberwolfach. He then paid a short visit to the International Centre for Mechanical Sciences in Udine. He gave seminar lectures at the T. U. Vienna, the T. H. Munich, the University of Stuttgart, the University of Karlsruhe, and the ETH Zurich. During the summer semester Dr. Rimrott was a visiting professor at the Institute of Mechanics of the Technical University of Hanover and lectured on Engineering Astromechanics and Advanced Strength of Materials. He attended the Education Symposium of the Canadian Aeronautics and Space Institute in Ottawa, Oct. 21-22.

DR. B. TABARROK attended the IUTAM Colloquium on High Speed Calculation of Elastic Structures held in Liège Aug. 23-28 and presented a paper entitled "Complementary Energy Method in Elastodynamics".

PROF. GORDON E. GODFREY attended the annual meeting of the Engineering Institute of Canada at Ottawa where he presented the CSME paper: "Study of Silver Chloride for Use as a Photoelastic Material" by G. E. Godfrey and B. DURAISWAMY.

PROF. B. RAMASWAMI attended the Second International Conference on the Strength of Metals and Alloys at Asilomar, Calif., Aug. 30 to Sept. 4, and presented a paper on "An Electron Microscope Study of the Dislocation Distribution in Fatigued Copper-Al₂O₃ Single Crystals". Prof. Ramaswami also attended the 20th Canadian Metal Physics Conference at Kingston from Aug. 19 to 21 and presented a paper on "The Effect of Al₂O₃ Particles on the Tensile Deformation of Copper Single Crystals".

PROF. C. B. ALCOCK attended "Corrosion '70", a symposium sponsored by the Canadian Forces Corrosion Prevention Committee in Ottawa, Oct. 20 to 22, and presented a paper entitled "Corrosion of Pure Nickel with SO₂/O₂ Atmospheres at 500-800° C".

PROF. K. T. AUSTR gave invited talks at the Pennsylvania State University on Oct. 13 and at the Chalk River Nuclear Laboratories on October 27.

Food Sciences

DR. B. A. McLAREN has stepped down as Dean of the Faculty of Food Sciences and is now on a one year sabbatical leave during which time she will be visiting Canadian and United States universities which have new complexes in health sciences, to find out how nutrition is being taught to students in associated professions. She will be returning July 1, 1971, as a professor. Prior to leaving, Dr. McLaren attended the Canadian Federation of Biological Societies annual meeting in Montreal June 9-10, and presented a paper "The Effect of Weight Loss on Serum Cholesterol Levels in Human Subjects". This meeting was also attended by Prof. C. DUNKLEY, Prof. M. KRONDL, and Prof. D. PALIN.

PROF. PALIN and Prof. S. JOLIAT chaired the research paper session at the Canadian Diabetic Association-Canadian Home Economics Association annual meeting in Toronto, July 6-10. The latter also presented a paper "Computer Analysis of Nutritional Data". Prof. P. COLEMAN and Dr. McLAREN also were present at this meeting.

PROF. KRONDL attended the Third International Congress of Food Sciences and Technology in Washington Aug. 10-14.

PROF. M. LEITCH was elected to the Council of the Engineering Institute of Canada in August.

Education

The October Workshop of the Ontario Educational Research Council was organized by Prof. H. O. BARRETT. The keynote speaker on Oct. 2 was Prof. R. W. DENT who spoke on "Attitude and Attitude Change". In the sessions on Oct. 3 co-chairmen of the section on Ethnic and International Understanding were Profs. G. BANCROFT and S. L. KONG. It is hoped that the Workshop may be repeated next

spring at some point in northern Ontario.

PROF. A. S. NEASE has been appointed co-chairman with Prof. ROBIN HARRIS of CIN 300, an undergraduate course in Education and Society offered by Innis College. The course is available to both day and extension students in the Faculty of Arts and Science, as well as to students in other faculties. By virtue of this appointment, Prof. Nease has been named to the General Committee of the Council of the Faculty of Arts and Science, with Prof. D. A. MACIVER as alternate.

PROF. DAVID CLEE was a panelist on a recent ETV program entitled "Chalkdust". The Chalkdust telecasts are scheduled by the Ontario Teachers' Federation in conjunction with the Ontario Education Communications Association. Prof. Clee has spoken recently at a number of meetings of teachers in the Toronto area.

PROF. S. L. KONG attended the First World Congress of Comparative Education Societies held in Ottawa, Aug. 17 to 21. While in Ottawa, he also participated in an invitational seminar for the planning of Teacher Training in Colombia. The projection of the number of teachers needed in elementary, secondary and technical schools in the next ten years, the creation of programs and other resources were topics of discussion.

Forestry

PROF. J. L. FARRAR has been appointed editor of the new *Canadian Journal of Forest Research* which is sponsored by the National Research Council of Canada. Prof. Farrar has also been appointed to the Plant Biology Grants Committee of the National Research Council.

PROF. Z. KORAN presented a paper entitled "Surface Structure of Pulp Fibers Studied by Electron Microscopy" at the 24th annual meeting of the Forest Products Research Society at Miami Beach June 29.

PROF. A. S. MICHELL spent Aug. 21 to Sept. 4 studying logging operations and forest worker training schools in northern Sweden. From Sept. 6 to 11, he attended the annual meeting and excursions in Finland of Section 32, International Union of Forest Research Organizations, and presented a paper entitled "Long Distance Transport of Tree Lengths to Processing Stations or Mills in Eastern Canada" at the University of Helsinki.

Medieval Studies

On Oct. 5, Prof. BERNARD C. BARMANN opened the program of the Midwestern Ontario Classical Association held in the Department of Education Building in Waterloo, in presenting a slide-lecture on "Mount Athos and the Byzantine World".

On October 10 Prof. JOHN LEYERLE, presided over the afternoon session of the Midwest Medieval History Conference's Eighth Annual Meeting held at the University of Wisconsin.

Books

Fact (Fundamental Accounting Concepts and Techniques), a secondary school accounting text by A. P. Seggie and J. La Fave in association with J. A. Hutton and G. R. Sutherland.

The Curé of St. Philippe, edited with an Introduction. By F. W. Grey. New Canadian Library (Toronto: McClelland and Stewart, 1970).

Ph.D. Orals

All members of the Graduate Faculty have the right to attend Ph.D. Oral Examinations.

Friday, November 13

William John McDermott, Department of History. "British Strategic Planning and the Committee of Imperial Defence, 1871-1907". Thesis supervisor: Prof. H. I. Nelson.

West Room, 16 Hart House Circle. 2 p.m.
Donald Potts, Department of Chemistry. "Organometallic Nitrates of Germanium, Tin, and Lead". Thesis supervisor: Prof. A. Walker. West Room, 16 Hart House Circle. 10 a.m.

Monday, November 16

Noel Trott Burland. This candidate's examination has been changed from October 29 to November 16. West Room, 16 Hart House Circle. 2 p.m.

Tuesday, November 17

M. Thomas Thomas, Department of Chemistry. "The Photochemistry of Thiochroman-4-One and Related Sulfoxides and Sulfones". Thesis supervisor: Prof. I. W. J. Still. West Room, 16 Hart House Circle. 2 p.m.

Wednesday, November 25

Eugene Theodore Agard, Department of Physics. "Neutron Activation Analysis". Thesis supervisor: Prof. K. G. McNeill. West Room, 16 Hart House Circle. 2 p.m.

COMING EVENTS

NOVEMBER (Continued from page 1)

14 SATURDAY

Party Children's Santa Claus Parade Party. Members and children. Faculty Club. 10 a.m. Reservations by Nov. 4.

15 SUNDAY

Service Choral Vespers service. Music by Blow, Byrd, and Stonnard. Massey College. 5 p.m.

16 MONDAY

Lectures
Medicine "Pyruvate Carboxylase: Comparative Studies of Structure and Function". Prof. M. F. Utter, Case Western Reserve University, Cleveland. Room 3153 Medical Sciences Building. 4 p.m. (SGS and Biochemistry)
Architecture "New Methods of Professional Practice". George Grenfell Baines. Room 103 Faculty Building, 230 College St. 8.30 p.m. (Urban & Regional Planning and Landscape Architecture)
Classics "Recent Excavations at Anemurium (Cilicia)". Prof. James Russell, Department of Classics, University of British Columbia. Room 241 Trinity College. 4.15 p.m. (SGS and Classics)
Medicine "Some Neurological Aspects of Eye Diseases". Henry Berry. Osler Hall, Academy of Medicine. 8.30 p.m. (Toronto Neurological Society)
Theatre "Breath" and "Come and Go" by Samuel Beckett and "Maquettes" a trilogy of one-act plays by Francis Warner. Hart House Theatre. Nov. 16 to 21 inc. 8.30 p.m. Tickets \$4. (U of T, St. Peter's College, Oxford; The Irish Theatre Society and A. J. Latner)

17 TUESDAY

Lectures
Astronomy "Optical Observations of the Crab Pulsar and Variable Quasars". Dr. N. Visvanathan, Harvard. David Dunlap Observatory. 4 p.m. (SGS and Astronomy)
History "Who Owns the United States: The Concept of Property in American History". Prof. Marcus Cunliffe, Director, School of English and American Studies, Sussex University. Room 159 Lash Miller Chemical Laboratories. 10 a.m. (SGS and History)
Drama "The Theatre of Cruelty". Charles Marowitz, Open Space Theatre, London, Eng. Upper Library, Massey College. 4 p.m. (SGS and Drama Centre)
Maths "Integral Linear Groups". Prof. O. T. O'Meara, University of Notre Dame, Indiana. Room 2118 Sidney Smith Hall. 4.10 p.m. (SGS and Mathematics)
History "Iceland and the Challenge to British Liberalism, 1800-1914". Michael Hurst, Oxford. Room 2118 Sidney Smith Hall. 4.10 p.m.
Phys. Ed. "Movement, Meaning and Relevance". Prof. Eleanor Metheny, University of Southern California. Convocation Hall, 8 p.m. (Physical and Health Education)
Forestry "Environmental Issues in the University — Prospects and Perils". Dr. Orie L. Loucks, professor of Plant Ecology, Wisconsin University. Room 107 Cody Hall. 8 p.m.
Film "Festival in Puerto Rico". Featuring contralto Maureen Forster. Concert Hall, 273 Bloor Street West. 12.15-12.45 p.m. (Royal Conservatory)
Music "God and His Creation — View of Islamic Theologians". Over CJRT-FM (91.1) at 1.30 p.m. and repeated at 9 p.m. (Islamic Studies)

18 WEDNESDAY

Demonstration
Music Luncheon Series. "Flute Aspects". Robert Aitken, flute. Concert Hall, Edward Johnson Building. 1 p.m.
Lectures
Maths "Automorphisms of Linear Groups". Prof. O. T. O'Meara, University of Notre Dame, Indiana. Room 5017A Sidney Smith Hall. 4.10 p.m. (SGS and Mathematics)
Education OISE Public Lecture Series. "Alternatives in Education". "Bilingualism: Challenges and Perils for Educators". Keith Spicer, Canada's first Commissioner of Official Languages. Auditorium, OISE, 252 Bloor Street West. 8 p.m.
Seminar
Medicine "Functional De-afferentation as a Neurophysiological Model of Epilepsy". Dr. Satterberg. 4 p.m. Room 3171 Medical Sciences Building. (Physiology)
Colloquium
Cable TV "Community Programming: the issues". Roy Shields, Toronto Telegram; John O. Graham, Greater Toronto Cable Association; Bruce Lawson, Intercom. 2 p.m. Room B (Library Science)
Meeting
Medicine "Dihydropterin Reductase and Hydroxylation Reactions". Miss Surinder Cheema. "Nascent Subribosomal Particles in Tetrahymena pyriformis". Dr. Jan Engbert, Biochemical Institute, University of Copenhagen. Room 3153 Medical Sciences Building. 4.15 p.m. (Toronto Biochemical and Biophysical Society)

19 THURSDAY

Lectures
History of Science "Lavoisier and the Chemical Revolution". Henry Guerlac, Goldwin Smith Professor of the History of Science, Cornell University. Room 3154 Medical Sciences Building. 1.10 p.m. (IHPST and Varsity Fund)
Medicine "Recent Studies on Secretory Immunoglobulins". Dr. John Bienenstock, McMaster University. Princess Margaret Hospital. 7.30 p.m. (Ontario Antibody Club)
Spanish "Jorge Luis Borges". Prof. D. A. Yates, Michigan State University. Room 1083, Sidney Smith Hall, 4.15 p.m. (SGS and Italian and Hispanic Languages and Literatures)
Social Work "Implications of the Sensitivity Training Method for Social Work Practice". Prof. Howard W. Polsky, Columbia University. Room 2158, Medical Sciences Building. 8.15 p.m. (SGS and Social Work)

20 FRIDAY

Lecture
Chemistry "New Homopolyatomic Cations of the Main Group Elements". Prof. R. J. Gillespie, McMaster University. Room 158 Lash Miller Chemical Laboratories. 4 p.m. (SGS and Chemistry)
Seminar
Computer "Picture Processing Research at the University of Maryland". Roger Nagel, Computer Science Center, University of Maryland. Room 202 McLennan Physical Laboratories. 11 a.m. (Computer Science)

21 SATURDAY

Party Wine and Cheese Party for graduating part-time undergraduate students. 84 Queen's Park Crescent West. 7 to 9 p.m. (APUS)

22 SUNDAY

Music University of Toronto Concert Band. Conductors: Robert A. Rosevear, Herbert C. Mueller. MacMillan Theatre, Edward Johnson Building. 3 p.m. Free.

23 MONDAY

Lectures
Geology "Seismology and Plate Tectonics." Prof. L. R. Sykes, Lamont-Doherty Geological Observatory, Columbia University, Palisades, N.Y. Mining Building. 4.30 p.m. (SGS and Geology)
 "Charles Dickens and Science". The first of four weekly lectures by Dr. W. E. Swinton to mark the centenary of Dickens' death. "Dickens as an Observer". Room 2135 Sidney Smith Hall. 5 p.m.
Seminars
Chemistry "Predicting Transitions in Flow Regimes in Pneumatic and Hydraulic Conveying". Dr. L. S. Leung, University of Queensland, Brisbane. Room 224 Wallberg Building. 3.30 p.m. (SGS, Chemical Engineering and Applied Chemistry)
Geology "Seismology and the New Global Tectonics". L. R. Sykes, Lamont-Doherty Geological Observatory. Room 128 Mining Building. 4 p.m. (Geology)

24 TUESDAY

Lectures
Education "The Promise of the Future: Technical Education in the XIXth Century". Prof. J. B. Sinclair. Room 3154 Medical Sciences Building. 2.10 p.m. (IHPST and Varsity Fund)
Astronomy "Compact Extragalactic Radio Sources". Dr. J. L. Locke, Radio and Electrical Engineering Division, National Research Council of Canada. David Dunlap Observatory. 4 p.m. (SGS and Astronomy)
Maths "On Local Solvability of Linear Partial Differential Equations". Prof. Louis Nirenberg, Courant Institute of Mathematical Sciences, New York University, N.Y. Room 2118 Sidney Smith Hall. 4.10 p.m. (SGS and Mathematics)
Medicine "The Biological Consequences of Neurofibrillary Tangles". Dr. Donald Crapper. Osler Hall, Academy of Medicine. 5 p.m. (Toronto Neurological Society)
Education "Canadian Consciousness: The Impact of Political Structure". Dr. Peter Regenstreif, Co-ordinator of the Canadian Program, University of Rochester. Auditorium, OISE, 252 Bloor Street West. 8 p.m. Free. (Curriculum Department)
Seminar
Geology "Seismology and Plate Tectonics." Prof. L. R. Sykes. Room 302 Mining Building. 2-4 p.m. (SGS and Geology)
Music Noon Hour Concerts. Baroque Music: Horace Hinds, trumpet and John Sidgwick, organ. 12.15-12.45 p.m. Free. (Royal Conservatory)

26 THURSDAY

Seminars
Geology "Gold Metallogeny and the Archean Geological Cycle". R. H. Ridler, Geological Survey of Canada. Room 128 Mining Building. 4 p.m. (Geology)
Pharmacology "Pharmacological Studies on the Nature of The Trophic Influence of Nerve on Muscle". Dr. Stephen Thesleff, Farmakologiska Institutionen, Lunds Universitet, Lund, Sweden. Room 4279 Medical Sciences Building. 4.30 p.m. (SGS and Pharmacology)
Music Nicholas Kilburn, bassoon and Peter Schenkman, cello. Concert Hall, Edward Johnson Building. 2 p.m. Free.

27 FRIDAY

Supper Faculty Club Buffet Supper. 5.30-8 p.m.

28 SATURDAY

Lecture "Planning the Environment of the Toronto-Centred Region". H. Ian MacDonald, Deputy Treasurer of Ontario and Deputy Minister of Economics of the Government of Ontario. Convocation Hall. 8.15 p.m. Free (Royal Institute)

30 MONDAY

Lectures
Science "Charles Dickens and Science". Second in series. "Science in Dickens' Novels". Dr. W. E. Swinton. Room 2135 Sidney Smith Hall. 5 p.m.
Italian "Dante's Medusa: Allegory of Poets or Allegory of Theologians". Prof. John Freccero, Yale University, Room 1084 Sidney Smith Hall. 4.15 p.m. (SGS and Italian and Hispanic Languages and Literatures) (Revised arrangements)

Problems of Textual Analysis colloquium here Nov 20 and 21

A colloquium on Problems of Textual Analysis is being held by the Department of French, University College, on Friday and Saturday, Nov. 20 and 21, in the Concert Hall, Edward Johnson Building. Program includes the following:

Friday
 9.30 a.m. Welcome by Prof. Eugène Joliat;
 9.45 a.m. "Elements phonostylistiques du texte littéraire". Pierre R. Léon;
 10.15 a.m. "The Role of Grammar in the Analysis of Poetic Syntax". Samuel Levin, City University of New York;
 11 a.m. "Morphosyntaxe et stylistique". Guy Rondeau, Université d'Ottawa;
 11.30 a.m. "Le lexique dans l'œuvre littéraire". Pierre Guiraud, Université de Nice;
 2.30 p.m. "Analyse sémiologique et analyse littéraire". Paul Bouissac;
 3 p.m. "Stylistic Problems in Translation". Henry Schogt;
 3.45 p.m. "La catégorie du jugement être vs. paraître et la fonctionnalité du récit". Gérard Bucher, University of Buffalo;
 4.15 p.m. "L'idéologie du mythe dans Germinal". Henry Mitterand, Université de Paris-Vincennes.

Saturday
 9.30 a.m. "La phrase de Céline". Albert Chesneau;
 10 a.m. "L'analyse du discours littéraire selon les méthodes transformationnelles américaines et européennes". Daniel Jourlaire and Jean-Claude Chevalier (Université de Paris-Vincennes);
 11 a.m. "The Stylistic Analysis of the Literary Image". Peter Nesselroth;
 11.30 a.m. "Modèles de la phrase litté-

raire". Michael Riffaterre, Columbia University;

2.30 p.m. "La littérature; fonction et fonctionnement". Serge Doubrovsky, New York University;
 3 p.m. "Plot structure in Narrative Prose". Lubomir Dolezel;
 3.45 p.m. "Essai d'analyse narrative" and "Proust et la récit itératif". Gérard Genette, Université de Paris-Sorbonne;
 4.15 p.m. "Discontinuity and Communication in Literature". Marshall McLuhan.

Registration fee is \$10 (students \$2.) Advanced registration: please make cheque payable to "Colloquium/Colloque TORONTO 1970" and mail to Madame S. Rioux, Phonetics Laboratory, 39 Queen's Park Cr. E., U. of T., Toronto 181. Last minute registration at Edward Johnson Building.

Meetings on discipline held Wednesdays, open to all

The Campbell Implementation and Programming Committee meets every Wednesday at 2 p.m. in the Senate Chamber, Simcoe Hall. All sessions are open to the public. The Committee has been sitting regularly since its formation last January, discussing the recommendations of the Campbell Report on disciplinary procedures.

EXHIBITIONS

The Toronto Book Collectors' Circle will hold an exhibition of unusual and interesting books at the E. J. Pratt Library, Victoria College. To Friday, Nov. 13.